

USDA/OCE World Agricultural Outlook Board
Stoneville Field Office
and
Mississippi State University Delta Research and Extension Center
Summary of Agricultural Weather Observations* - 1999

AIR TEMPERATURE	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>ANNUAL</u>
AVERAGE MAXIMUM	56.7	62.8	62.0	78.3	84.4	89.3	93.3	96.2	89.1	79.5	70.8	57.4	76.7
AVERAGE MINIMUM	37.3	42.1	41.4	58.8	62.7	70.7	73.3	70.2	61.1	51.5	45.0	36.1	54.2
DEPARTURE OF MEAN FROM NORMAL	5.4	6.2	-2.9	5.3	1.4	0.6	1.3	2.6	0.4	2.2	4.5	1.9	2.4
HIGHEST TEMPERATURE	76.0	83.0	75.0	88.0	93.0	96.0	100.0	104.0	99.0	90.0	85.0	75.0	104.0
LOWEST TEMPERATURE	18.0	26.0	31.0	41.0	50.0	59.0	64.0	61.0	45.0	37.0	33.0	26.0	18.0
SOIL TEMPERATURE AVERAGES													
2 INCH MAXIMUM	55.3	62.9	64.0	80.9	90.0	96.4	103.9	106.3	94.4	82.8	71.5	57.6	80.5
2 INCH MINIMUM	41.7	44.5	45.4	62.4	69.3	77.7	81.6	81.6	70.7	59.0	50.0	41.9	60.5
4 INCH MAXIMUM	53.7	59.9	60.8	76.0	84.3	90.9	97.1	98.2	88.2	77.2	66.5	54.1	75.6
4 INCH MINIMUM	45.9	49.8	50.2	65.0	71.1	78.3	82.5	84.5	74.5	62.7	53.5	44.6	63.6
8 INCH MAXIMUM	53.8	58.2	59.2	71.4	78.5	85.2	90.8	93.0	83.7	72.6	63.1	52.2	71.8
8 INCH MINIMUM	50.3	54.7	55.6	67.7	73.6	80.7	85.1	87.5	79.1	68.5	58.8	49.0	67.6
20 INCH OBSERVATION	49.6	54.9	54.8	65.7	73.5	80.2	84.7	88.5	81.4	72.4	63.9	53.2	68.6
TOTAL PRECIPITATION (inches)													
	13.82	1.28	3.99	6.32	5.69	2.81	1.03	0.23	1.72	1.21	4.92	3.44	46.46
DEPARTURE FROM 30-YR AVERAGE													
	8.53	-3.25	-1.65	0.82	0.44	-1.25	-2.88	-1.81	-1.49	-2.09	-0.52	-2.14	-7.29
AVG. SOLAR RADIATION (langley's/day)													
	176	287	350	435	542	516	548	551	435	372	289	203	392
DEPARTURE FROM 20-YR AVERAGE													
	-44.9	-9.1	-28.9	-32.9	14.2	-42.8	-4.3	39.8	2.1	25.4	42.8	6.4	-2.7
TOTAL EVAPORATION (inches)													
	0.00	0.00	0.00	6.86	8.54	8.38	7.84	9.22	6.85	5.56	0.00	0.00	53.25
TOTAL WIND RUN AT EVAP. PAN (miles/day)													
	2883	2212	2914	2640	1891	1710	930	1054	1140	1550	1560	2201	22685
RELATIVE HUMIDITY													
AVERAGE MAXIMUM	98	96	96	95	92	95	99	95	95	96	97	97	96
AVERAGE MINIMUM	69	56	53	52	41	52	52	39	35	36	45	55	49

LAST SPRING FREEZE/AIR TEMP <=32, MAR 15 - FIRST FALL FREEZE/AIR TEMP <=32, DEC 1 - GROWING SEASON 261 DAYS, NORMAL 225 DAYS

ADDITIONAL INFORMATION: LOW TEMP RECORDS WERE SET ON JUN 19 (59) AND JUL 13 (64). HIGH TEMP RECORDS WERE SET ON FEB 10 (83), FEB 11 (76), AUG 2 (100), AUG 20 (104), SEP 8 (97), OCT 14 (90), OCT 16 (89), NOV 7 (80), NOV 8 (81), AND NOV 15 (85). 9th WARMEST FEBRUARY ON RECORD; 2nd WARMEST APRIL; 6th WARMEST AUGUST; 5th WARMEST NOVEMBER.

*BASED ON DATA FROM THE NATIONAL WEATHER SERVICE COOPERATIVE OBSERVING STATION LOCATED IN STONEVILLE, MS